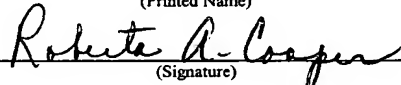


**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant: Petersen, et al.  
Title: BATTERY PASTE MATERIAL  
AND METHOD  
Appl. No.: To be determined  
Filing Date: 04/21/2006  
Examiner: To be determined  
Art Unit: To be determined

<b>CERTIFICATE OF EXPRESS MAILING</b> I hereby certify that this correspondence is being deposited with the United States Postal Service's "Express Mail Post Office To Addressee" service under 37 C.F.R. § 1.10 on the date indicated below and is addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.	
EL 979072791 US (Express Mail Label Number)	04/20/06 (Date of Deposit)
Roberta A. Cooper (Printed Name)	
 (Signature)	

**INFORMATION DISCLOSURE STATEMENT**  
**UNDER 37 CFR §1.56**

Mail Stop PCT  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Submitted herewith on Form PTO/SB/08 is a listing of documents known to Applicants in order to comply with Applicants' duty of disclosure pursuant to 37 CFR §1.56.

A copy of each non-U.S. patent document and each non-patent document is being submitted to comply with the provisions of 37 CFR §1.97 and §1.98.

The submission of any document herewith, which is not a statutory bar, is not intended as an admission that such document constitutes prior art against the claims of the present application or that such document is considered material to patentability as defined in 37 CFR §1.56(b). Applicants do not waive any rights to take any action which would be appropriate to antedate or otherwise remove as a competent reference any document which is determined to be a *prima facie* art reference against the claims of the present application.

10/576427

RECEIVED PTO 20 APR 2006

Atty. Dkt. No. 054821-0548

**TIMING OF THE DISCLOSURE**

The listed documents are being submitted in compliance with 37 CFR §1.97(b), within three (3) months of the date of entry of the national stage as set forth in 37 CFR §1.491.

**RELEVANCE OF EACH DOCUMENT**

A copy of the European Search Report is attached setting forth the portion of each document listed on the Search Report considered relevant by the examiner. Also, the relevance of the foreign-language documents is described in English-language abstracts for the documents provided herewith. English-language counterparts of the foreign-language documents have not been provided. However, the absence of such translation does not relieve the PTO from its duty to consider the submitted foreign language documents (37 CFR §1.98 and MPEP §609).

Applicants respectfully request that each listed document be considered by the Examiner and be made of record in the present application and that an initialed copy of Form PTO/SB/08 be returned in accordance with MPEP §609.

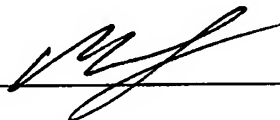
Although Applicant believes that no fee is required for this Request, the Commissioner is hereby authorized to charge any additional fees which may be required for this Request to Deposit Account No. 06-1447.

Respectfully submitted,

Date

4/20/2006

By



FOLEY & LARDNER LLP

Customer Number: 26371

Telephone: (313) 234-7150

Facsimile: (313) 234-2800

Marcus W. Sprow

Attorney for Applicant

Registration No. 48,580

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Substitute for form 1449B/PTO <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  Date Submitted: April 20, 2006  <i>(use as many sheets as necessary)</i>		<b>Complete if Known</b> <div style="font-size: 1.5em; font-weight: bold; margin-bottom: 5px;">10/576427</div> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Application Number</td> <td style="width: 50%;">To Be Determined</td> </tr> <tr> <td>Filing Date</td> <td>04/20/2006</td> </tr> <tr> <td>First Named Inventor</td> <td>Ralph Peterson</td> </tr> <tr> <td>Group Art Unit</td> <td>To Be Determined</td> </tr> <tr> <td>Examiner Name</td> <td>To Be Determined</td> </tr> <tr> <td>Attorney Docket Number</td> <td>054821-0548</td> </tr> </table>		Application Number	To Be Determined	Filing Date	04/20/2006	First Named Inventor	Ralph Peterson	Group Art Unit	To Be Determined	Examiner Name	To Be Determined	Attorney Docket Number	054821-0548
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Attorney Docket Number	054821-0548														
Sheet	1	of	4												

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
	A1	6,755,874	B2	Chen et al.	06-29-2004	
	A2	6,454,977	B1	Kwok et al.	09-24-2002	
	A3	6,442,811	B1	Dawood et al.	09-03-2002	
	A4	6,274,274	B1	Schaeffer et al.	08-14-2001	
	A5	6,168,661	B1	Dinkelman	01-02-2001	
	A6	6,014,798		Nitsche et al.	01-18-2000	
	A7	5,998,062		Olson	12-07-1999	
	A8	5,958,621		Kao	09-28-1999	
	A9	5,871,862		Olson	02-16-1999	
	A10	5,660,600		Vyas	08-26-1997	
	A11	5,447,809		Hafner et al.	09-05-1995	
	A12	5,443,601		Doeff et al.	08-22-1995	
	A13	5,382,482		Suga et al.	01-17-1995	
	A14	5,368,961		Juergens	11-29-1994	
	A15	5,302,476		Kao et al.	04-12-1994	
	A16	5,290,359		Coonen et al.	03-01-1994	
	A17	5,273,554		Vyas	12-28-1993	
	A18	5,252,105		Witherspoon et al.	10-12-1993	
	A19	5,198,313		Juergens	03-30-1993	
	A20	5,120,620		Nelson et al.	06-09-1992	
	A21	5,096,611		Matthew et al.	03-17-1992	
	A22	5,092,404		Falsk et al.	03-03-1992	
	A23	5,091,273		Hug et al.	02-25-1992	
	A24	5,047,300		Juergens	09-10-1991	
	A25	5,045,086		Juergens	09-03-1991	
	A26	5,021,166		Torpey	06-04-1991	
	A27	5,002,700		Otagawa et al.	03-26-1991	
	A28	4,902,532		Seo	02-20-1990	
	A29	4,900,643		Eskra et al.	02-13-1990	
	A30	4,867,886		Botkins, Jr.	09-19-1989	
	A31	4,780,379		Puester	10-25-1988	
	A32	4,758,372		Eirich et al.	07-19-1988	
	A33	4,707,272		Kistler	11-17-1987	
	A34	4,705,602		Dahl	11-10-1987	
	A35	4,697,511		Davis et al.	10-06-1987	
	A36	4,656,706		Mahato et al.	04-14-1987	
	A37	4,648,177		Uba et al.	03-10-1987	
	A38	4,637,966		Uba et al.	01-20-1987	
	A39	4,618,478		McKinney	10-21-1986	
	A40	4,606,982		Nelson et al.	08-19-1986	

Examiner Signature	Date Considered
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First Named Inventor				Ralph Peterson	
Group Art Unit				To Be Determined	
Examiner Name				To Be Determined	
Attorney Docket Number				054821-0548	
Sheet	2	of	4		

**U.S. PATENT DOCUMENTS**

		U.S. Patent Document		
	A41	4,551,401	Wilson	11-05-1985
	A42	4,547,443	Rowlette et al.	10-15-1985
	A43	4,501,669	Hakansson et al.	02-26-1985
	A44	4,475,453	Davis	10-09-1984
	A45	4,422,917	Hayfield	12-27-1983
	A46	4,421,832	Uba	12-20-1983
	A47	4,415,410	Reich	11-15-1983
	A48	4,414,295	Uba	11-08-1983
	A49	4,407,911	Hooke	10-04-1983
	A50	4,388,210	Parker	06-14-1983
	A51	4,387,142	Lindholm et al.	06-07-1983
	A52	4,383,011	McClelland et al.	05-10-1983
	A53	4,346,151	Uba et al.	08-24-1982
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	A64	4,064,725	Hug et al.	12-27-1977
	A65	4,050,482	Ching et al.	09-27-1977
	A66	4,024,055	Blann	05-17-1977
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	A69	3,974,026	Emson et al.	08-10-1976
	A70	3,951,688	Pankow et al.	04-20-1976
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	A75	3,770,507	Weissman et al.	11-06-1973
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	A79	3,702,265	Snyder et al.	11-07-1972
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	A82	3,419,431	Michaels	12-31-1968
	A83	3,398,024	Barnes et al.	08-20-1968

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Attorney Docket Number		054821-0548			

U.S. PATENT DOCUMENTS					
		U.S. Patent Document			
	A84	3,384,458		McCarthy et al.	05-21-1968
	A85	3,252,764		Bruno, Jr.	05-24-1966
	A86	3,194,685		Malloy	07-13-1965
	A87	3,186,871		Donohue	06-01-1965
	A88	3,169,890		Voss et al.	02-16-1965
	A89	3,104,946		Veal	09-24-1963
	A90	3,001,013		Stanton	09-19-1961
	A91	2,717,903		Ruth	09-13-1955
	A92	2,182,479		Johnstone	12-05-1939
	A93	2,165,944		Scott	07-11-1939
	A94	2,159,226		Reid	05-23-1939
	A95	1,572,586		Weir	02-09-1926

U.S. PATENT APPLICATION DOCUMENTS						
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		Serial Number	Kind Code <sup>2</sup> (if known)			
	A96	2004/0234852	A1	Klein et al.	11-25-2004	
	A97	2004/121233		Klein et al.	06-24-2004	
	A98	2002/0124388	A1	Chen et al.	09-12-2002	

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Documents	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
	A99	EP	1 261 049	A1	Chen et al.	11-27-2002		
	A100	EP	0707718		Preuss	04-24-1996		
	A101	EP	196507		Kistler	10-08-1986		
	A102	ES	8801559		Rheinmetall GMBH (DE)	04-01-1988		
	A103	FR	723018		Thomson	04-01-1932		
	A104	GB	1014694		Barnes et al.	12-31-1965		
	A105	JP	63-269456		Morimoto	11-07-1988		
	A106	JP	59-101773		Tamaru	06-12-1984		
	A107	JP	58-147961		Satou	09-02-1983		
	A108	WO	2004/059772	A2	Klein	07-15-2004		
	A109	WO	02/069418	A1	Nitsche et al.	09-06-2002		
	A110	WO	8200258	A1	Koczka et al.	02-04-1982		

**NON PATENT LITERATURE DOCUMENTS**

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		Attorney Docket Number	054821-0548

Sheet 4 of 4

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>6</sup>
	A111	International Search Report for PCT/US2004/034710, date of mailing 03/24/05, 3 pages.	
	A112	PAVLOV D et al.: "Influence Of Paste Composition And Curing Program Used For The Production Of Positive Plates With PbSnCa Grids On The Performance Of Lead Acid Batteries", Journal Of Power Sources, Elsevier Sequoia S.A. Lausanne, Cr, Vol. 114, No. 1, 25 February 2003, Pages 137-159	
	A113	DREJER I et al.: "Investigation On Soaking And Formation Of Lead/Acid Battery Plates With Different Mass Structure", Journal Of Power Sources, Elsevier Sequoia S.A. Lausanne, Cr, Vol. .85, No. 1, January 2000 (2000—01), pages 117-139	
	A114	VILDUNEN J K et al.: "Processes During Preparation Of Lead/Acid Battery Positive Plates From Tetrabasic Lead Sulfate (4bs) Pastes", Journal Of Power Sources, Elsevier Sequoia S.A. Lausanne, Ch, Vol. 46, No. 2/3, 1 October 1, 1993 pages 269-283	
	A115	GRUGEON-DEWAELE, S., LARUELLE, S., JOLIVEAU-VALLAT, F., TORCHEUX, DELAHAYE-VIDAL, A., "Synthesis and Electrochemical Performances of Tribasic and Tetrabasic Lead Sulfates Prepared by Reactive Grinding", Journal of Power Sources 72, 1998, pages 126-131.	
	A116	VILHUNEN, J.K., HORNYTZKYJ, S. and TUMMAVUORI, J. "The Influence of the Raw Material and Production Method on the Morphology, Microstructure, Chemical and Phase Composition of Tetrabasic Lead Sulfate Pastes", Journal of Power Sources, Volume 39, 1992, pages 59-65.	
	A117	PAVLOV, D. and KAPKOV, N., "Lead-Acid Battery Pastes Containing 4PbO – PbSO <sub>4</sub> and Pb <sub>3</sub> O <sub>4</sub> ", J. Electrochemical Society, Volume 137, No. 1, January 1990, pages 16-28.	
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	A119	MCCABE, W.L. and SMITH, J.C., "Unit Operations of Chemical Engineering" third edition, McGraw-Hill Book Company, 1976, 5 pages.	
	A120	PAVLOV, D. and PAPAHOV, G., "Dependence of the Properties of the Lead-Acid Battery Positive Plate Paste on the Processes Occurring During Its Production" Journal of Applied Electrochemistry, Volume 6, No. 4, July 1976, pages 339-345.	
	A121	BIAGETTI, R.V. and WEEKS, M.C., "Tetrabasic Lead Sulfate as a Paste Material for Positive Plates", Bell System Technical Journal, September 1970, Vol. 49, No. 7, pp. 1305-1319.	
	A122	BURBANK, J., "Anodic Oxidation of the Basic Sulfates of Lead" Journal of the Electrochemical Society, Volume 113, No. 1, January 1966, pages 10-14.	

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